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Alan Stone

JUNE, 1914

BULLETIN 348

CORNELL UNIVERSITY
AGRICULTURAL EXPERIMENT STATION OF
THE COLLEGE OF AGRICULTURE
Department of Entomology

A BIBLIOGRAPHY OF THE WRITINGS OF
PROFESSOR MARK VERNON SLINGERLAND

By M. D. LEONARD

ITHACA, NEW YORK
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AGRICULTURAL EXPERIMENT STATION

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M. V. Stryerland

PROFESSOR MARK VERNON SLINGERLAND

Professor Slingerland, a list of whose scientific writings follows, played a very important part in the more recent development of economic entomology in this country—that development which followed the establishment of the federal agricultural experiment stations. He was one of that large group of young men who found opportunities to devote themselves to scientific work through the establishment of these stations, and who by their efforts have proved the wisdom of such governmental aid to agriculture.

Professor Slingerland's call to his life work came to him suddenly and with irresistible force. When he came to Cornell he knew nothing of entomology. In speaking of this fact afterward he said that when he entered the University he did not know that a butterfly was developed from a caterpillar. During his freshman year he listened to a lecture on the transformations and habits of insects, and the wonders of the insect world took such a deep hold on his imagination that he could not sleep during the following night. From that moment there was no doubt in his mind of what his life work should be.

At this time he was defraying his college expenses by taking care of the then recently erected insectary. Opportunity was soon given him to take part in the entomological work that was being conducted in this building. He proved to be so efficient in this work that while yet an undergraduate he was made Assistant Entomologist of the Experiment Station.

This appointment was made in 1890. During that year and the year following, bulletins on fruit insects and on wireworms were published jointly by the writer of this sketch and Mr. Slingerland. After the publication of these bulletins the entomological work of the experiment station was conducted almost entirely by Mr. Slingerland, and the work remained in his charge until his death.

In 1892 Mr. Slingerland completed his college course, graduating with the degree of B.S. in Agr. At this time he was given the rank of Instructor in Entomology; and in 1899 he was made Assistant Professor of Economic Entomology, which position he held until his death on March 11, 1909.

Professor Slingerland's life was an exceedingly active one. In the seventeen years that intervened between his graduation and his death, he faithfully performed the duties of a teacher and found time for researches that made for him an international reputation.

The bulletins that he published were in a marked degree monographic. Instead of writing about many insects he selected a few and discussed them thoroughly, working up as far as possible every detail in the life history of the species studied. A striking feature of Professor Slingerland's bulletins is the excellence of the illustrations; he spared neither time nor care in photographing entomological subjects, and acquired a remarkable degree of skill in this field.

Although his work is characterized by the highest degree of scientific accuracy, he never forgot that the object of his work was to aid those who till the soil. He never allowed his interests in the purely scientific aspects of the subjects studied to cause him to neglect the practical applications of the results obtained. A marked instance of this was his invention of the Spray Calendar; for he devised the first tabular calendar arrangement of spraying suggestions. This was printed and used at farmers' institutes in 1894. The value of this method of publication was apparent at once and the method has been generally adopted by experiment stations.

As a teacher Professor Slingerland was clear, direct, and painstaking. He had the keenest interest in the needs of each individual student. In the last conversation that the writer had with him, only a few hours before his death, he discussed the work of several of his students. Even at that hour, when it was evident to others that the end was near, his thought was not of himself but of his students.

In this manner closed the life of one who, although given but few years in which to work, accomplished much; and who endeared himself to his fellow workers by his sterling qualities as a man and a friend.

J. H. COMSTOCK

A BIBLIOGRAPHY OF THE WRITINGS OF PROFESSOR MARK VERNON SLINGERLAND

M. D. LEONARD

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Insects injurious to fruits. By J. H. Comstock and M. V. Slingerland.
Cornell Univ. Agr. Exp. Sta. Bul. 23:101-126.

1891

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Agr. Exp. Sta. Bul. 33:191-272.
The horn fly. Cornell Univ. Agr. Exp. Sta. Bul. 37:378-381.
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Pear-leaf blister mite and bud moth.
The hop louse. Oneida dispatch, June 6.

1892

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White-marked tussock-moth.
Drasteria erichto. Ent. news 3:63.
The bean weevil. Insect life 5:86.
Drasteria erechtea. Insect life 5:87.
The pear-tree psylla. Insect life 5:100-104.
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1893

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- Jaws that are tougher than hickory! Rural New-Yorker **52**:781.
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- Two bad apple enemies. Rural New-Yorker **52**:816.
Chionaspis furfura and *Trypeta pomonella*.

1894

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- A bad grapevine pest. Rural New-Yorker 53:84.
Desmia funeralis.
- Bees on potatoes and grapes. Rural New-Yorker 53:100.
- To keep moths from wool. Rural New-Yorker 53:101.
- Apple tree canker; grape beetles and bloom. Rural New-Yorker 53:151.
Graptodera chalybea.
- Codling moth; hen manure for orchard. Rural New-Yorker 53:158.
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- Life and death of the white grub. Rural New-Yorker 53:281.
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- A talk about plant lice. Rural New-Yorker 53:361.
- To destroy bark lice in Canada. Rural New-Yorker 53:361.
Oyster-shell bark-louse.
- Oyster-shell bark-louse on apples. Rural New-Yorker 53:361.
- To prevent buffalo bugs. Rural New-Yorker 53:383.
- Plant lice on oats. Rural New-Yorker 53:409.
The grain aphid.
- Harmless insects accused. Rural New-Yorker 53:425.
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- An insect brought from the World's Fair. Rural New-Yorker 53:425.
Angoumois grain moth.
- Insects on hollyhocks. Rural New-Yorker 53:457.
Chrysomela sigmoides and *Corythuca fuscigera*.
- The periodical cicada, or 17-year locust. Rural New-Yorker 53:470,
488, fig. 122.
- Clover mite working on raspberries. Rural New-Yorker 53:568.
Bryobia pratensis(?).
- Potato stalk insects. Rural New-Yorker 53:569.
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Chelymorphia argus.
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- Chicken mites on a horse. Rural New-Yorker 53:665.
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Lecanium corni.
- To get rid of ants. Rural New-Yorker 53:777.
- The harlequin cabbage bug in winter. Rural New-Yorker 53:793.

1894 (continued)

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1895

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- An insect fond of rhubarb. Rural New-Yorker 54:37.
Lixus concavus.
- Cocoon of a giant silkworm. Rural New-Yorker 54:52.
Samia cecropia.
- Beans "stung" by an unknown insect. Rural New-Yorker 54:52.
- Killing codling moths in winter. Rural New-Yorker 54:52.
- Do sprayed apples live longer? Rural New-Yorker 54:69.
- A katydid that did no mischief. Rural New-Yorker 54:69, fig. 24.
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- A "blight" on grape vines. Rural New-Yorker 54:104.
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- Some homemade sheep dips. Rural New-Yorker 54:112.
- Why lime is used in bordeaux mixture. Rural New-Yorker 54:138.
- Oyster-shell bark-louse on apples. Rural New-Yorker 54:140.
- Corn and cotton worms; North and South. Rural New-Yorker 54:143.
Heliothis armiger and *Alabama argillacea*.
- Knots on a mountain ash. Rural New-Yorker 54:160.
- A troublesome new plum pest. Rural New-Yorker 54:161, fig. 54.
hyloptus phlæocoptes.

1895 (*continued*)

- What nips the plum trees? Rural New-Yorker 54:194.
Ithycerus noveboracensis(?).
- What to do for raspberry anthracnose. Rural New-Yorker 54:220.
- The white grub in strawberries and manure. Rural New-Yorker 54:220.
- A treatment for pear blight. Rural New-Yorker 54:241.
- A white mould on carrots. Rural New-Yorker 54:243.
- Is there a cure for plant lice? Rural New-Yorker 54:254.
- The rust of the quince. Rural New-Yorker 54:254.
- Latest news on the plum scale. Rural New-Yorker 54:260, fig. 83.
- Habits of squash-vine borers. Rural New-Yorker 54:261.
- The apple maggot "*Trypeta pomonella*." Rural New-Yorker 54:280.
- Spots on a pear tree. Rural New-Yorker 54:280.
 Natural to the bark.
- Galls that infest the mulberry. Rural New-Yorker 54:297.
Pachypsylla celtidis-gemma, or a closely allied species(?).
- A bad fruit bug. Rural New-Yorker 54:328.
Lygus pratensis.
- Disease and insects on apple twigs. Rural New-Yorker 54:329.
 Cause of the disease undetermined; insects are *Megalopye opercularis* and *Clisiocampa americana*.
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- The Norfolk Island pine coccus or bark-louse. Rural New-Yorker 54:345.
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 White grubs(?).
- Work of the bud-moth. Rural New-Yorker 54:361.
- Washing or spraying plum trees. Rural New-Yorker 54:361.
- A new raspberry eater. Rural New-Yorker 54:377.
Typhophorus canellus.
- Scale insects on the pine. Rural New-Yorker 54:377.
Chionaspis pinifoliæ.
- "Black spot" on the peach. Rural New-Yorker 54:377.
- Life history of plant lice. Rural New-Yorker 54:377.
- Insects on Georgia melons. Rural New-Yorker 54:392-393.
Diabrotica vittata and *D. duodecimpunctata*.
- The woolly aphid on Kansas apples. Rural New-Yorker 54:393.
- Salt for the peach borer? Rural New-Yorker 54:393.
- A "die back" caused by a freeze. Rural New-Yorker 54:393.
- [No title.] Rural New-Yorker 54:397.
 An article relating to the addition of lime to paris green.
- To kill the cabbage worm. Rural New-Yorker 54:408.
- What to do for "chestnut worms." Rural New-Yorker 54:408.
- Cut worms and green currant worms. Rural New-Yorker 54:409.

1895 (continued)

A new apple pest. Rural New-Yorker 54:425, fig. 136.

Corythuca arcuata(?).

Some worms and webs. Rural New-Yorker 54:425.

Either the imported currant borer moth or the American currant borer beetle(?), and *Nematus ventricosus*.

A case of "die back." Rural New-Yorker 54:425.

Epicærus imbricatus.

Terrible tales of a "worm." Rural New-Yorker 54:441.

Millipedes.

The plum curculio on apples. Rural New-Yorker 54:457.

A talk about squash bugs. Rural New-Yorker 54:473.

The life story of a worm. Rural New-Yorker 54:502, fig. 157.

Phlegothonthius.

A trio of bugs. Rural New-Yorker 54:505.

Lygus pratensis, *Crepidodera cucumeris*, and another probably allied to the rose leaf-hopper.

An ash borer; the rhinoceros beetle. Rural New-Yorker 54:521.

The former is probably *Podosesia syringæ*.

A grape vine leaf eater. Rural New-Yorker 54:521.

Procris (*Harrisina*) *americana*.

Another omnivorous insect pest. Rural New-Yorker 54:521.

Otiorynchus ovatus.

Something about "pear blight." Rural New-Yorker 54:537.

The queen of the night. Rural New-Yorker 54:553, fig. 171.

Tropæa luna.

Why do pears crack? Rural New-Yorker 54:553.

Pear leaf blight.

The "old-fashioned" potato bug. Rural New-Yorker 54:569, fig. 180.

Epicauta vittata.

A bug that frightens hens. Rural New-Yorker 54:569.

Sand cricket.

[No title.] Rural New-Yorker 54:573.

Curling of potato leaves due, possibly, to some insect injury.

The shot-hole borer. Rural New-Yorker 54:585, fig. 183.

Wireworms again; sour land. Rural New-Yorker 54:601.

An anti-ant remedy wanted. Rural New-Yorker 54:601.

White grubs in corn. Rural New-Yorker 54:601.

A borer in cedar wood. Rural New-Yorker 54:617.

Undetermined.

Another blister beetle. Rural New-Yorker 54:617.

Epicauta pennsylvanica.

The "live-forever" disease. Rural New-Yorker 54:632.

Vermicularia telephii(?).

Treatment for celery blight. Rural New-Yorker 54:632.

Ants as a fertilizer. Rural New-Yorker 54:632.

Various bad bugs. Rural New-Yorker 54:649.

Pontia rapæ and *Murgantia histrionica*.

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- The blackberry leaf-spot fungus. Rural New-Yorker 54:665.
Septoria rubi(?).
- A bug with a long snout. Rural New-Yorker 54:665.
Balaninus quercus.
- The pests of the hen house. Rural New-Yorker 54:679, fig. 215.
Menopon pallidum and *Dermanyssus gallinae*.
- Copper solution for celery blight. Rural New-Yorker 54:681.
- The troublesome harlequin bug. Rural New-Yorker 54:697.
- Will salt kill grubs and worms? Rural New-Yorker 54:713.
- A liquid "thistle destroyer." Rural New-Yorker 54:777.
- Bugs, mustard seed, and clover. Rural New-Yorker 54:777.
Grain plant louse(?).
- The story of the apple rust. Rural New-Yorker 54:841.
- Work of the snowy tree cricket. Rural New-Yorker 54:856.
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- A curious hammock and its maker. Ent. news 7:109.
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- Feltia subgothica*, Haworth, or *Agrotis* (Subgen. *Agronoma*) *jaculifera*, Guenee, which? Can. ent. 27:301-308, pl.
- The plum-twigg gall-mite. Can. ent. 27:329.
- The clover root borer. Country gentleman 40:208-209.
- An important new book. Ithaca daily journal, April 9.
Review of "A manual for the study of insects," by John Henry Comstock and Anna Botsford Comstock.
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Lepisma saccharina.
- Plum scale in Michigan. Allegan gazette, June 22.
Lecanium corni.
- A rare species. Waverly free press, September 21.
Phobetron pithecium.

1896

- Wireworms and the bud moth. Cornell Univ. Agr. Exp. Sta. Bul. 107:33-66.
- The pear psylla and the New York plum scale. Cornell Univ. Agr. Exp. Sta. Bul. 108:67-86.

1896 (continued)

- Green fruit worms. Cornell Univ. Agr. Exp. Sta. Bul. 123:505-522.
Entomology. West. New York Hort. Soc. Proc. 41:18-23.
Some "dung worms" examined. Rural New-Yorker 55:2, fig. 2.
Aphodius fimetarius.
The apple crop and 17-year locusts. Rural New-Yorker 55:53.
Can we starve the white grubs? Rural New-Yorker 55:69.
How to fleece fleas of life. Rural New-Yorker 55:99.
How to fight the tarnished plant-bug. Rural New-Yorker 55:99.
What will kill lice? Rural New-Yorker 55:100.
How to fight white grubs. Rural New-Yorker 55:116.
What can be done for wireworms? Rural New-Yorker 55:117.
Some notes on celery blight. Rural New-Yorker 55:118.
A colony of "spring-tails" in water. Rural New-Yorker 55:138.
The snowy tree cricket on raspberries. Rural New-Yorker 55:157, fig. 57.
Cause and prevention of oat smut. Rural New-Yorker 55:197.
"Tumble bugs" and their curious habits. Rural New-Yorker 55:236,
fig. 76.
The scurfy bark louse. Rural New-Yorker 55:236.
Salt and lime for onion maggots. Rural New-Yorker 55:257.
How to fight the canker worm. Rural New-Yorker 55:288.
The use of bordeaux mixture; sulphate of copper. Rural New-Yorker
55:288.
The painted hickory borer. Rural New-Yorker 55:303.
Cyllene pictus.
Plant traps for cabbage insects. Rural New-Yorker 55:303.
A melon disease; bordeaux mixture. Rural New-Yorker 55:315.
"Damping-off" fungus(?).
How to kill cabbage insects. Rural New-Yorker 55:320.
Crickets as strawberry pickers. Rural New-Yorker 55:320.
The chinch bug in New York State. Rural New-Yorker 55:337.
On what do 17-year cicadas live? Rural New-Yorker 55:351.
A group of insect depredators. A case of rusted wheat. Printers' ink
on trees. The oyster-shell bark-louse. To drive flies out of stables
What will kill root lice? Use of bordeaux mixture on apples. Rural
New-Yorker 55:352.
Rust in the blackberry. Rural New-Yorker 55:353.
Destroying the codling moth without spraying. Rural New-Yorker
55:357.
More light turned on white grubs. Rural New-Yorker 55:369, fig. 119.
"Fighting canker worms." Rural New-Yorker 55:371.
Root gall in peach trees. Rural New-Yorker 55:385, fig. 128.
Propagating the lady-bird beetle. Rural New-Yorker 55:385.

1896 (*continued*)

- A new destructive insect on pecans. Rural New-Yorker 55:401, fig. 133.
 Fighting insect foes. Sulphur as an insecticide. How to kill "June bugs." Lye in place of lime for bordeaux mixture. The troublesome umbrella ant. Rural New-Yorker 55:416.
 The white grub question. Rural New-Yorker 55:418.
 Grape-vine tomato-gall; poison ivy. Rural New-Yorker 55:433.
Lasioplera vitis.
 Insects found on grapes. Rural New-Yorker 55:448.
 Katydid and praying mantis.
 Insects that work on strawberries. Rural New-Yorker 55:448.
Phoxopteris complana.
 Insect and fungous foes of fruit. Rose beetles; a new apple pest. [Green fruit worms(?).] More about dung worms. "Plum rot." What is it? How cure it? Seventeen-year locusts not poisonous. Twig blight and apple rust. Rural New-Yorker 55:464.
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